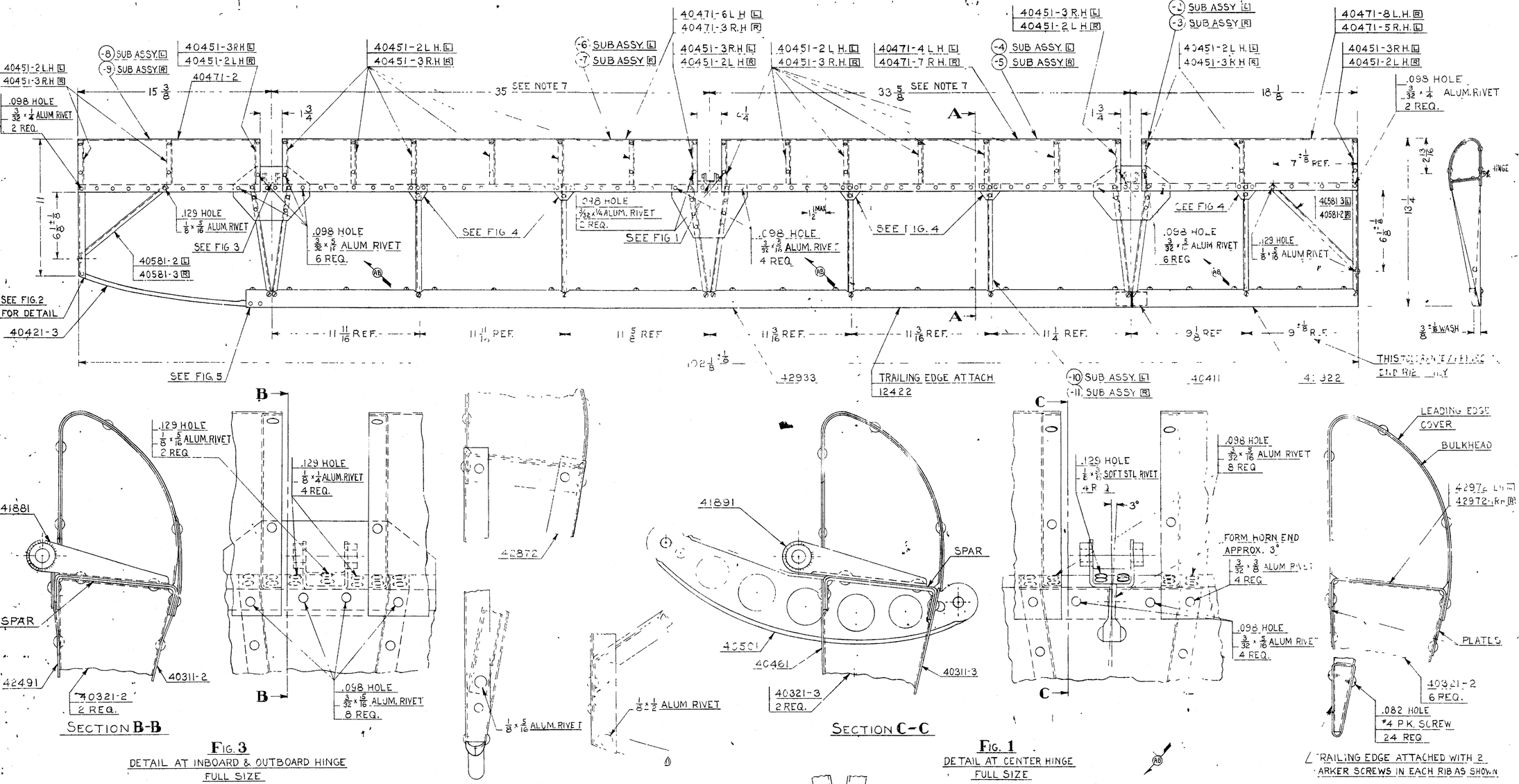

SECTION B-B

FIG. 3
DETAIL AT INBOARD & OUTBOARD HINGE
FULL SIZE

FIG. 2
DETAIL AT TIP RIB
FULL SIZE

SECTION C-C

FIG. 1
DETAIL AT CENTER HINGE
FULL SIZE

RAILING EDGE ATTACHED WITH 2 PARKER SCREWS IN EACH RIB AS SHOWN

SECTION A-A
TYPICAL CROSS SECTION
FULL SIZE

ASSY NO.		REMARKS
42585	L.	SHOWN
42585-1	R.	OPPOSITE
42585-12	L.	SHOWN & CUT AS NOTED IN FIG 1
42585-13	R.	OPP. & CUT AS NOTED IN FIG. 1

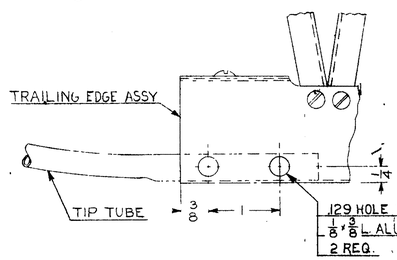

FIG. 5
TIP TUBE INST.
FULL SIZE

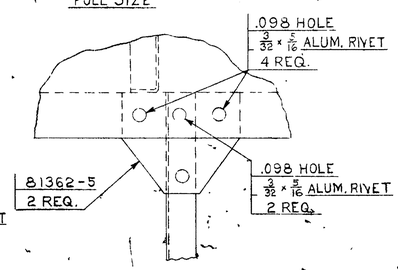

FIG. 4
FULL SIZE

NOTES:

1. PARTS MARKED [L] USED ON LEFT ASSEMBLY ONLY. PARTS MARKED [R] USED ON RIGHT ASSEMBLY ONLY.
2. CENTER HINGE INSTALLED TO LINE WITH INBOARD AND OUTBOARD HINGES.
3. ALL RIVETS TO BE SPACED APPROXIMATELY AS SHOWN.
4. UNLESS OTHERWISE NOTED ALL RIVETS ARE 3/32 × 5/16 SOFT ALUMINUM, .098 HOLE.
5. ALL BULKHEAD FLANGES SHALL FACE OUTBOARD EXCEPT AT AILERON ENDS AND CUTOUTS. CORRESPONDING RIBS SHALL FACE INBOARD.
6. ALL PARTS TO THIS ASSEMBLY MUST BE INSTALLED SO THAT NO SHARP EDGES, CORNERS OR BULGES SHALL PROTRUDE BEYOND THE FABRIC LINE.
7. AILERON HINGE CENTERS MUST COINCIDE WITH CENTERS OF RELATED PARTS ON WING ASSEMBLY.
8. .098 HOLES DRILLED THRU LEADING EDGE COVER AND BULKHEADS 40451-2 & 40451-3 ON ASSEMBLY SPACED APPROXIMATELY AS SHOWN IN SECTION C-C.

#4	24	1/4 LONG	TYPE "A" STOVE HD. PK. SCR.	
	4	1/8 × 3/8 LONG	RD HD. SOFT STL. RIVET	
	1	1/8 × 1/2 LONG	BRAZIER HD. SOFT ALUM. RIVET	
	2	1/8 × 3/8 LONG		
	8	1/8 × 5/16 LONG		
	6	1/8 × 1/4 LONG		
	1	3/32 × 3/8 LONG		
	74	3/32 × 5/16 LONG		
	6	3/32 × 1/4 LONG		
	240	3/32 × 3/16 LONG		
12422	1	TRAILING EDGE ATTACHMENT		
81362-5	10	PLATE		
42972-1 / 42972	1	SPAR		
42933	1	TRAILING EDGE		
42922	1			
42872	1	TIP RIB ASSEMBLY		
42491	2	REINFORCEMENT PLATE		
41891	1	HINGE ASSEMBLY		
41881	2			
40581-3	1	BRACE		
40581-2	1			
40501	1	HORN ASSEMBLY		
40471-5	1	LEADING EDGE COVER		
40471-8				
40471-7	1			
40471-4				
40471-3	1			
40471-6				
40471-2	1			
40461	1	REINFORCEMENT PLATE		
40451-3	4 [L] 16 [R]	BULKHEAD		
40451-2	16 [L] 4 [R]			
40421-3	1	TIP TUBE		
40411	1	REINFORCEMENT		
40321-3	2	RIB		
40321-2	10			
40311-3	1	REINFORCEMENT PLATE		
40311-2	2			
-11		CONSISTS OF 42872, 41891, 40501, 42972-1, 2 OF 40321-3, 41881, 4 OF 40451-2, 40451-3, 10 OF 40321-2, 4 OF 1/8 × 3/8 STEEL RIVETS, 4 OF 1/8 × 5/16 ALUM. RIVETS 8 OF 1/8 × 1/4 RIVETS, 36 OF 3/32 × 5/16 RIVETS.		
-10		CONSISTS OF 42872, 41891, 40501, 42972, 2 OF 40321-3, 41881, 4 OF 40451-2, 40451-3, 10 OF 40321-2, 4 OF 1/8 × 3/8 STL. RIVETS, 4 OF 1/8 × 5/16 ALUM. RIVETS 8 OF 1/8 × 1/4 RIVETS, 36 OF 3/32 × 5/16 RIVETS.		
-9		CONSISTS OF 40451-3, 40471-2 & 4 OF 3/32 × 3/16 RIVETS		
-8		CONSISTS OF 40451-2, 40471-2 & 4 OF 3/32 × 3/16 RIVETS		
-7		CONSISTS OF 40471-3, 5 OF 40451-3 & 20 OF 3/32 × 3/16 RIVETS		
-6		CONSISTS OF 40471-6, 5 OF 40451-2 & 20 OF 3/32 × 3/16 RIVETS		
-5		CONSISTS OF 40471-7, 5 OF 40451-3 & 20 OF 3/32 × 3/16 RIVETS		
-4		CONSISTS OF 40471-4, 5 OF 40451-2 & 20 OF 3/32 × 3/16 RIVETS		
-3		CONSISTS OF 40451-3, 40471-8 & 4 OF 3/32 × 3/16 RIVETS		
-2		CONSISTS OF 40451-2, 40471-5 & 4 OF 3/32 × 3/16 RIVETS		
PART NO.	NO. REQ.	SIZE / MATERIAL	DESCRIPTION	

SCALE 3 IN = 1 FT & NOTED — TOTAL WT.—LBS.
FINISH—PIPER SPECIFICATION #10
MANUFACTURING PRACTICES—PIPER SPECIFICATION #9

MODEL	PER PLANE	NEXT ASSEMBLY	SUPERSEDES	SUP. BY

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CET	REVISION	DATE	BY
AB	36 OF 3/32 × 3/16 RIVETS WAS 1/4 L	8-11-37	RWE
AA	REDRAWN & REVISED	2-20-50	HRV

PIPER AIRCRAFT CORP.
LOCK HAVEN, PENNA.

AILERON ASSEMBLY

DRAFTSMAN	CHECKER	STANDARDS
H. K. 8-10-50	C. E. 8-16-50	

AUG 1 1968

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Philadelphia Blue Print Co. 150 8-1-46